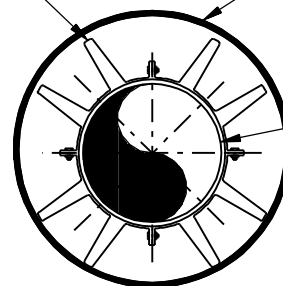


CARRIER PIPE DIA	MIN CASING DIA REQUIRED
6"	12"
8"	16"
12"	20"
15"	24"
18"	30"
24"	36"
>24"	BY ENGINEER



#### NOTES:

1. BORING SHALL BE AT 90 DEGREES TO ALL CROSSINGS UNLESS OTHERWISE APPROVED. THE BORING OF THE HOLE AND INSTALLATION OF THE CASING PIPE SHALL BE SIMULTANEOUS. BORE HOLE DIAMETER SHALL ESSENTIALLY BE THE SAME AS THE OUTSIDE DIAMETER OF THE CASING PIPE TO BE INSTALLED.
2. STEEL PIPE CASING SHALL BE SMOOTH STEEL PIPE FABRICATED IN SECTIONS IN ACCORDANCE WITH AWWA C201. LENGTHS OF CASING PIPE SHALL BE AS LONG AS PRACTICAL FOR SITE CONDITIONS.
3. JOINTS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C206. JOINTS BETWEEN SECTIONS SHALL BE COMPLETELY WELDED TO THE PRECEDING SECTIONS. PRIOR TO WELDING JOINTS, THE CONTRACTOR SHALL ENSURE THAT BOTH ENDS OF THE CASING SECTIONS BEING WELDED ARE SQUARE.
4. STEEL PIPE CASING WALL THICKNESS SHALL BE AS SPECIFIED. VERIFY CASING SIZES PRIOR TO ORDERING AND SIZING CASING INSULATORS.
5. CASING SPACERS SHALL RESTRAINED-TYPE BOLTED SPACERS AND SHALL HAVE A MAXIMUM SPACING AS SHOWN, OR AS RECOMMENDED BY MANUFACTURER, WHICHEVER IS CLOSER. PIPE CASING SPACERS SHALL BE AS MANUFACTURED BY PIPELINE SEAL AND INSULATOR, INC., ADVANCE PRODUCTS AND SYSTEMS, INC., CALPICO, CASCADE WATER WORKS MFG, INC., OR APPROVED EQUAL.
6. CASING END SEALS SHALL BE SYNTHETIC NEOPRENE RUBBER PULL-ON TYPE END SEALS WITH STAINLESS STEEL BANDS, AS MANUFACTURED BY THE ABOVE MANUFACTURERS, OR APPROVED EQUAL.



DEPARTMENT OF  
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APPROVED BY

*[Signature]*  
CITY ENGINEER  
04/10  
DATE

REVISIONS

STANDARD DRAWING TITLE

TYPICAL PIPE  
CASING DETAIL

NO SCALE

DIVISION

GENERAL

DRAWING NO.

208